Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work : Improvements to Burial Ground at Attur Layout and Ananthapura in ward no- 03 of Yelahanka New Town Sub Division

Sl. No	Description		No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications.(P.No-139,I No-18.16) By Mechanical Means:B. In area of thorny jungle								
	Basic Rate		22907.00						
	Area Weightage 6%		1374.42						
	Total		24281.42						
	Area 1		1	20.00	45.00		900.00		
	Area 2		1	30.00	80.00		2400.00		
							3300.00		
						Ha	0.33	24281.42	8012.87
2	Earth work excavation for foundation of building, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m in depyh including the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specification No. KBS 2.1 (b)/ 2.3.5 PWD SR 2018-19 It No.2.4 Pg. No.6								
	Basic Rate		449.00						
	Area Weightage 6%		26.94						
	Total		475.94						
	For Columns		130	1.00	1.00	1.00	130.00		
	Compound Wall								
			1	16.00	0.80	1.00	12.80		
			1	20.00	0.80	1.00	16.00		
			1	45.00	0.80	1.00	36.00		
			1	40.00	0.80	1.00	32.00		
			1	20.00	0.80	1.00	16.00		
			1	35.00	0.80	1.00	28.00		
			1	75.00	0.80	1.00	60.00		
			1	70.00	0.80	1.00	56.00		
	Debris		1	25.00	19.00	0.30	142.50		
				Area					
	For Platform		3	20.00		0.50	30.00		
						Cum	559.30	475.94	266193.24
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								

	Basic Rate		5115.00						
	Area Weightage 6%		306.90						
	Total		5421.90						
	For Columns		130	1.00	1.00	0.15	19.50		
	Compound Wall								
			1	16.00	0.80	0.15	1.92		
			1	20.00	0.80	0.15	2.40		
			1	45.00	0.80	0.15	5.40		
			1	40.00	0.80	0.15	4.80		
			1	20.00	0.80	0.15	2.40		
			1	35.00	0.80	0.15	4.20		
			1	75.00	0.80	0.15	9.00		
			1	70.00	0.80	0.15	8.40		
				Area					
	For Platform		3	20.00		0.15	9.00		
	Road 1		1	86.00	5.00	0.15	64.50		
	Road 2		1	56.00	4.40	0.15	36.96		
	Culvert		1	6.50	1.40	0.15	1.37		
						Cum	169.85	5421.90	920882.61
4	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 PWD SR 2018-19 It No.5.5 Pg. No.25								
	Basic Rate		4494.00						
	Area Weightage 6%		269.64						
	Total		4763.64						
	Compound Wall								
			1	16.00	0.60	0.60	5.76		
			1	20.00	0.60	0.60	7.20		
			1	45.00	0.60	0.60	16.20		
			1	40.00	0.60	0.60	14.40		
			1	20.00	0.60	0.60	7.20		
			1	35.00	0.60	0.60	12.60		
			1	75.00	0.60	0.60	27.00		
			1	70.00	0.60	0.60	25.20		
				Perimeter					
	For Platform		3	16.00		0.60	28.80		
						Cum	144.36	4763.64	687679.07
5	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 PWD SR 2018-19 It No.5.6 Pg. No.25								
	Basic Rate		4596.00						
	Area Weightage 6%		275.76						
	Total		4871.76						
	Basement								
	Compound Wall								
			1	16.00	0.45	0.45	3.24		
			1	20.00	0.45	0.45	4.05		
			1	45.00	0.45	0.45	9.11		
			1	40.00	0.45	0.45	8.10		
			1	20.00	0.45	0.45	4.05		

			1	35.00	0.45	0.45	7.09		
			1	75.00	0.45	0.45	15.19		
			1	70.00	0.45	0.45	14.18		
				Perimeter					
	For Platform		3	16.00		0.45	21.60		
	For Platform Above ground level		3	14.00		0.60	25.20		
						Cum	111.80	4871.76	544674.95
6	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2(P.No-13,I No-4.6)								
	Basic Rate		5422.00						
	Area Weightage 6%		325.32						
	Total		5747.32						
	Basement								
	Compound Wall								
			1	16.00	0.45	0.10	0.72		
			1	20.00	0.45	0.10	0.90		
			1	45.00	0.45	0.10	2.03		
			1	40.00	0.45	0.10	1.80		
			1	20.00	0.45	0.10	0.90		
			1	35.00	0.45	0.10	1.58		
			1	75.00	0.45	0.10	3.38		
			1	70.00	0.45	0.10	3.15		
	Coping								
	Compound Wall								
			1	16.00	0.20	0.05	0.16		
			1	20.00	0.20	0.05	0.20		
			1	45.00	0.20	0.05	0.45		
			1	40.00	0.20	0.05	0.40		
			1	20.00	0.20	0.05	0.20		
			1	35.00	0.20	0.05	0.35		
			1	75.00	0.20	0.05	0.75		
			1	70.00	0.20	0.05	0.70		
						Cum	17.66	5747.32	101468.93
7	KSRB 15.1.3 – do – Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.PWD SR 2018-19 It No.15.3 Pg. No.115								
	Basic Rate		142.00						
	Area Weightage 6%		8.52						
	Total		150.52	Perimeter					
	For Platform Above ground level		6	14.00		0.60	50.40		
						Sqm	50.40	150.52	7586.21
8	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications. Specification No. KBS 14.26 PWD SR 2018-19 It No.14.4 Pg. No.103								
	Basic Rate		3241.00						

	Area Weightage 6%		194.46						
	Total		3435.46	Perimeter					
	For Platform Above ground level		3	14.00		0.60	25.20		
						Sqm	25.20	3435.46	86573.59
9	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. PWD SR 2018-19 It No.14.62 Pg. No.112								
	Basic Rate		1232.00						
	Area Weightage 6%		73.92						
	Total		1305.92	Area					
	For Platform Above ground level		3	16.00			48.00		
						Sqm	48.00	1305.92	62684.16
10	Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses (Pg no. 299 I.No 38.30) P.No.299 It No.38.30								
	Basic Rate		688.00						
	Area Weightage 6%		41.28						
	Total		729.28	Area					
	For Platform Above ground level		3	23.00			69.00		
						Sqm	69.00	729.28	50320.32
11	Fabricating, supplying & erecting M.S. Angular Truss for all spans as per approved designs and drawing. The entire truss is anchored suitably by using 4 Nos. of M.S. anchor bolts at each support, with base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S angle and welding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification (Pg no. 43 I.No 7.30) P.No.43 It No.7.30								
	Basic Rate		128.00						
	Area Weightage 6%		7.68						
	Total		135.68	Area					
	For Platform Above ground level		3	23.00			69.00		
	25kg/sqm						1725.00		
						Kgs	1725.00	135.68	234048.00

12	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 PWD SR 2018-19 It No.4.12Pg. No.14								
	Basic Rate		6045.00						
	Area Weightage 6%		362.70						
	Total		6407.70						
	For Columns		130	0.80	0.80	0.60	49.92		
			130	0.60	0.60	0.60	28.08		
			130	0.45	0.20	1.80	21.06		
	For Platform		3	16.00		0.10	4.80		
						Cum	**103.86**	**6407.70**	**665503.72**
13	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 Specification No.KBS 4.6.3 PWD SR 2018-19 It No.4.46.2Pg. No.18								
	Basic Rate		70966.00						
	Area Weightage 6%		4257.96						
	Total		75223.96						
			Nos	**Qty**	**Kg/cum**	**Kgs**			
	For Columns @ 90 Kg/ Cum		1	103.86	90	9347.4			
	For culvert @ 90 Kg / cum		1	3.35	90	301.86			
						9649.26			
						Ton	**9.65**	**75223.96**	**725855.55**
14	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 PWD SR 2018-19 It No.4.31Pg. No.16								
	Basic Rate		358.00						
	Area Weightage 6%		21.48						
	Total		379.48						
	For Footting	4	138	0.80		0.60	264.96		
	For column	4	138	0.60		0.60	198.72		
	Plinth Beam	2	138	0.45		1.80	223.56		
		2	138	0.20		1.80	99.36		
						Sqm	**786.60**	**379.48**	**298498.97**

15	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **PWD SR 2018-19 It No.5.26.1Pg. No.27**									
	Basic Rate		912.00							
	Area Weightage 6%		54.72							
	Total		966.72							
	Compound Wall									
			1	16.00		2.10	33.60			
			1	20.00		2.10	42.00			
			1	45.00		2.10	94.50			
			1	40.00		2.10	84.00			
			1	20.00		2.10	42.00			
			1	35.00		2.10	73.50			
			1	75.00		2.10	157.50			
			1	70.00		2.10	147.00			
						Sqm	674.10	966.72	651665.95	
16	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .**PWD SR 2018-19 It No.15.17Pg. No.116**									
	Basic Rate		245.00							
	Area Weightage 6%		14.70							
	Total		259.7							
	Compound Wall									
			2	16.00		2.20	70.40			
			2	20.00		2.20	88.00			
			2	45.00		2.20	198.00			
			2	40.00		2.20	176.00			
			2	20.00		2.20	88.00			
			2	35.00		2.20	154.00			
			2	75.00		2.20	330.00			
			2	70.00		2.20	308.00			
						Sqm	1412.40	259.70	366800.28	
17	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. **PWD SR 2018-19 It No.15.53.1 Pg. No.120**									
	Basic Rate		89.00							
	Area Weightage 6%		5.34							
	Total		94.34							
	Qty Same as External Plastering						1412.40			
						Sqm	1412.40	94.34	133245.82	

18	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work. (Data Rate)								
	Data rate		12475.00						
			2.00	4.00		2.15	17.20		
						Sqm	**17.20**	**12475.00**	**214570.00**
19	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143)								
	Basic Rate		41.00						
	Area Weightage 6%		2.46						
	Total		43.46						
	8Km Lead, Loading and Unloading =(2*1.28*8)		20.48						
	Total Rate Rs. =		**63.94**						
	Road 1		1	86.00	5.00	0.35	150.50		
	Road 2		1	56.00	4.40	0.35	86.24		
	Culvert		1	6.50	1.40	1.00	9.10		
						Cum	**245.84**	**63.94**	**15719.01**
21	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	Basic Rate		6670.00						
	Area Weightage 6%		400.20						
	Total		7070.2						
	Culvert Raft		1	6.50	1.20	0.20	1.56		
	Culvert Wall		2	6.50	0.23	0.60	1.79		
						Cum	**3.35**	**7070.20**	**23713.45**
22	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								

	Data Rate		5418.00						
	Culvert		1	6.50	1.20		7.80		
						Cum	7.80	5418.00	42260.40
23	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	Basic Rate		4916.00						
	Area Weightage 6%		294.96						
	Total		5210.96						
	Road 1		1	86.00	5.00	0.15	64.50		
	Road 2		1	56.00	4.40	0.15	36.96		
						Cum	101.46	5210.96	528704.00
								Total Construction Cost	6636661.10
								Towards GST 12%	796399.33
								PMC charges	66,366.61
								Sub Total	7499427.04
								Utility Shifting,Miscellaneous and Rounding off	572.96
								GRAND TOTAL	7500000.00

Certificate

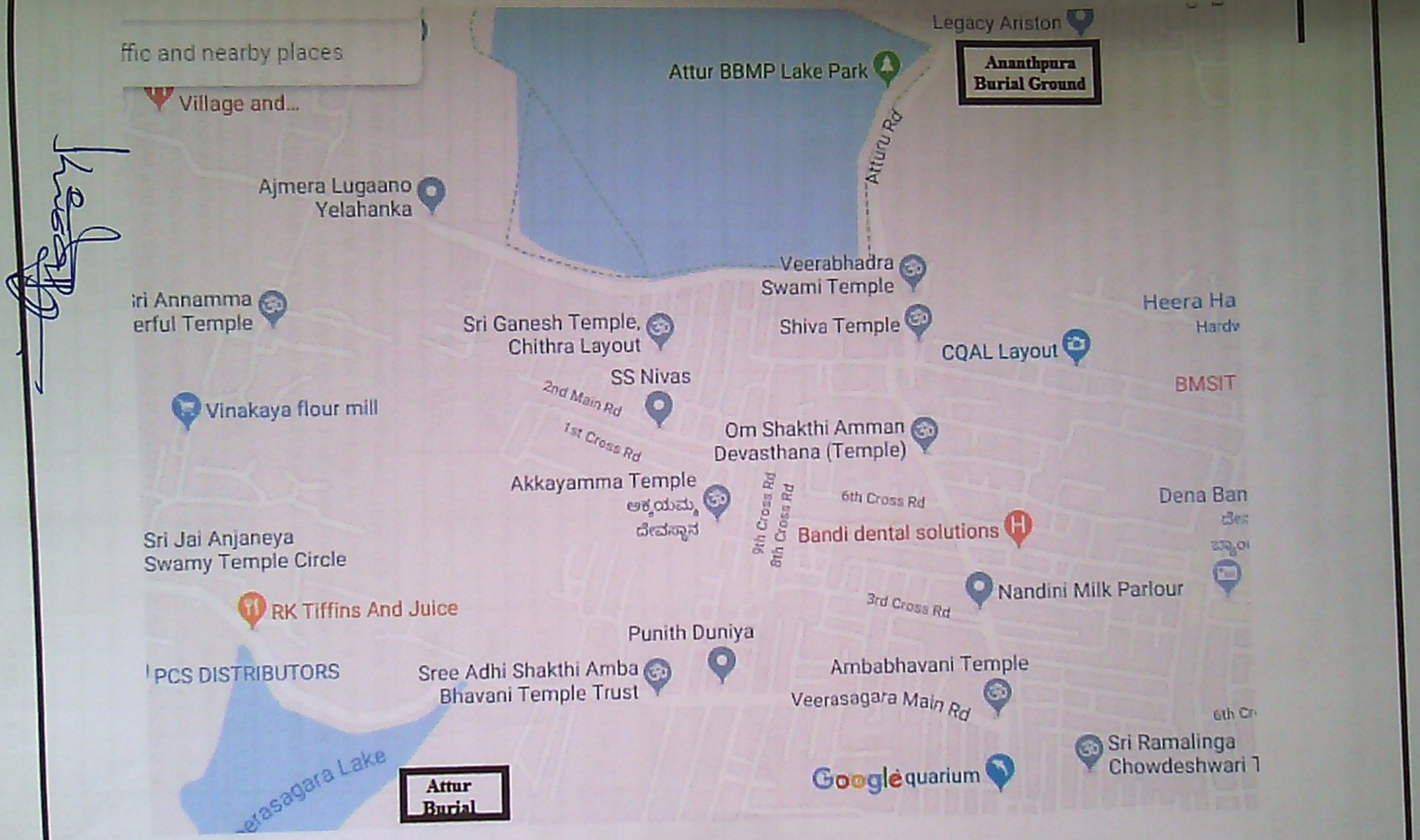
1. The workspot was inspected and works is found to be necessary.
2. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019,
issue rates dated 21-10-2019, PRED, BWSSB, KPWD Electrical SR for year 2018-2019 and Data Rates

Assistant Engineer
Ward 03
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Satellite Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Name of Work: Improvements to Burial Ground at Attur Layout and Ananthapura in ward no- 03 of Yelahanka New Town Sub Division



Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements to Burial ground at Allalasandra and surrounding areas in ward no-04 of Yelahanka New Town Sub Division

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.47, I. 9.4) PRED.SR 2019-20**								
	Basic Rate	3768.0							
			2				2.00	3768.00	7536.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars, cap etc.,) **Page no. 46 / I. 9.1 PRED SR 2019-20**								
	Basic Rate	347.00							
	0 to 50 m		2	50.00			100.00	347.00	34700.00
	Basic Rate	442.00							
	50 to 100 m		2	50.00			100.00	442.00	44200.00
	Basic Rate	456.00							
	100 to 150 m		2	50.00			100.00	456.00	45600.00
	Basic Rate	536.00							
	150 to 200 m		2	50.00			100.00	536.00	53600.00
	Basic Rate	634.00							
	200 to 250 m		2	50.00			100.00	634.00	63400.00
	Basic Rate	700.00							
	250 to 300 m		2	50.00			100.00	700.00	70000.00
	Basic Rate	825.00							
	300 to 350 m		2	50.00			100.00	825.00	82500.00
3	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84**								
		Rmtr	2	60.00			120.00	1325.00	159000.00
4	Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 (P. No.92/ I. No. 13.15 KPWD SR 2018-19)								
	Basic rate	388.00							
	Area Weightage 6%	23.28							
	Total	**411.28**							
		mtr	2	320.00			640.00	411.28	263219.20
5	Providing 250mm dia PVC Pipe **BWSSB SR 17-18 PNO 133 SL NO 1.11**								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
		Rmtr							
			2	12.00			24.00	1353.00	32472.00
6	Providing 175mm dia ms casing cap **page no III it no 85 pred 12-13 sr**								
		no	2				2.00	100.00	200.00
7	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. **P. No. 7/ I No. (2.6.4) 3cx 6.0 Sqm KPWD Electrical SR 2019-20**								
		Mtr	2	650.00			1300.00	205.00	266500.00
8	Atalanta,Suguna,CRI KIRLOSKER AND other equipment pumps 15.00 HP/11KW(30 Stage)P. No. XLII I No.43) (K.P.W.D SR 2018-19)								
		Nos	2				2.00	63498.00	126996.00
9	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia **(P No.40, I No. 6.1) KPWD Electrical SR 2019-20**								
		NO	2				2.00	2999.70	5999.40
10	Supplying and Fixing 20"x20"x2.5"polished wood board made up not less than 15mm thick plank with front plank one end providing for olding at other end fixing the same to the valve using tapered bolts and nuts, (P No. 24 No.5.6.6 KPWD Electrical SR 2019-20)								
		Each	2				2.00	292.00	584.00
11	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp (2CX 10Sqm.mm wire armoured) confirming IS 3975;1990(no.of strip indicated i GTP) AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.A.4 Core 16Sqmm.P No.40/ I No.6.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2019-20								
		Mtr	2	30.00			60.00	150.00	9000.00
12	Labour charges for laying of 1.1 K.V class UG cable, in existing trench GI Pipe / stoneware pipe /on wall/on poles as required In existing trencg/duct 6 Sqmm to 16 Sqmm)P No. 41 / I No. 6.5.1 KPWD Electrical SR 2019-20								
		Mtr	2	25.00			50.00	11.88	594.00
13	Supplying and fixing of procelin fuse channel with e on existing wooden / panel using necessary nuts, bolts and washers , 63 Amps **(P No. 44 / I No. 5.7.3 KPWD Electrical SR 2019-20)**								
		Each	2				2.00	227.00	454.00
14	Providing and fixing in position 50mm nominal bore non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications **(Page No.95 Item No. 13.62 / PWD SR 2018-19)**								
	Basic rate	1269.00							
	Area Weightage 6%	76.14							
	Total	**1345.14**							
		Nos	2				2.00	1345.14	2690.28
15	Supplying and fixing maniature circuit breakers on existing MCB Distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, Energy cross -3 with short circuit breaking capacity of 10K And Completed wiring confirming to IEC 60898 50-63 Amps TPN **(P. No. 27 I No.5.17.9) KPWD Electrical SR 2019-20**								
		Each	2				2.00	2397.00	4794.00

	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
	Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc., in the Asphalt surface road including cost of materials, labour, HOM complete as per specifications. **(P. No.269/ I No 37.38 PWD SR 2018-19)**								
	Basic rate	449.00							
	Area Weightage 6%	26.94							
	Total	**475.94**							
		Cum	2	352.00	0.60	0.150	**63.36**	**475.94**	**30155.56**
17	KSRB 2-2 : Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. **(P. No.6/ I No 2.3 PWD SR 2018-19)**								
	Basic rate	299.00							
	Area Weightage 6%	17.94							
	Total	**316.94**							
		Cum	2	352.00	0.60	0.70	**295.68**	**316.94**	**93712.82**
18	Supplying PVC ring tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and prefect linking at joints testing and commissoning incuding loading and un loading at both destinations and cuts of pipes wherever neccessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approvel type with all labour with all lead and lift incuding encasing the pipe alround to adepth of not less then 15cms with soft gravel or selected earth availble from the excavation etc.., completed and giving necessary hydralic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)(P. No.133 I No 1.4 BWSSB SR 2018-19) **63mm outer dia, 6kg/sqcm & class 5**								
		Mtr	2	352.00			**704.00**	**122.00**	**85888.00**
19	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. includingcost of all labour complete as per specifications. P. No. 7.1/ I No. (2.11) KPWD SR 2018-19								
	Basic rate	121.00							
	Area Weightage 6%	7.26							
	Total	**128.26**							
		Cum	2	352.00	0.60	0.70	**295.68**	**128.26**	**37923.92**
20	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18 of PWD BCSR 2018-19)								
	Basic rate	1888.00							
	Area Weightage 6%	113.28							
	Total	**2001.28**							
		Cum	2	352.00	0.60	0.230	**97.15**		
	Pathway		1	75.00	1.80	0.15	**20.25**		
							117.40	**2001.28**	**234954.27**
21	Supplying fully automatic **star-delta starter** unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Above 12.5 HP upto 25 HP (P No. 24 / I No.5.2.2 KPWD Electrical SR 2019-20)								

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
		Nos	2				2.00	8000.00	16000.00
22	KSRRB M200-11.1. Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications.(P.No-139,I No-18.16) By Mechanical Means:B. In area of								
	Basic rate	22907.00							
	Area Weightage 6%	1374.42							
	Total	**24281.42**							
		Ha							
	65% area		0.65	40.00	30.00		780.00		
							0.08	**24281.42**	**1893.95**
23	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	215.28							
		Cum							
	Debris, 65% volume		0.65	40.00	30.00	1.25	975.00		
	Fence		1	12.00	0.80	0.75	7.20		
			1	33.00	0.80	0.75	19.80		
	Front cobble stone		1	80.00	0.60	0.30	14.40		
	Water tank		2	5.00	1.50	0.30	4.50		
							1020.90	**215.28**	**219779.35**
24	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	Basic rate	5115.00							
	Area Weightage 6%	306.9							
	Total	**5421.90**							
		Cum							
	Fence		1	12.00	0.80	0.15	1.44		
			1	33.00	0.80	0.15	3.96		
	Front cobble stone		1	80.00	0.60	0.15	7.20		
	For Benches		8	1.80	1.50	0.15	3.24		
	Surround bench		8	6.40	0.20	0.10	1.02		
	Platform		1	15.00	6.00	0.15	13.50		
	Water tank		2	5.00	1.50	0.15	2.25		
							32.61	**5421.90**	**176829.85**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
25	KSRB 5.2-3 : Providing and **constructing granite / trap / basalt size stone masonry** in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (Page No 25., I.No.5.6).								
	Basic rate	4596.00							
	Area Weightage 6%	275.76							
	Total	**4871.76**							
		Cum							
	Fence		1	12.00	0.75	0.60	5.40		
			1	33.00	0.75	0.60	14.85		
	2nd step		1	12.00	0.60	0.40	2.88		
			1	29.00	0.60	0.40	6.96		
							30.09	**4871.76**	**146591.26**
26	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	Basic rate	5422.00							
	Area Weightage 6%	325.32							
	Total	**5747.32**							
		Cum							
	2nd step		1	12.00	0.60	0.10	0.72		
			1	33.00	0.60	0.10	1.98		
	For Kerb stone								
	Pathway		2	75.00	0.20	0.10	3.00		
	Surround bench		8	6.40	0.20	0.10	1.02		
	Platform		1	42.00	0.20	0.10	0.84		
	Water tank		2	5.00	1.50	0.150	2.25		
							9.81	**5747.32**	**56404.20**
27	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 PWD SR 2018-19 It No.5.26.1Pg. No.27								
	Basic rate	912.00							
	Area Weightage 6%	54.72							
	Total	**966.72**							
		Sqm							
	Water tank		4	5.00		1.000	20.00		
			4	1.20		1.000	4.80		
							24.80	**966.72**	**23974.66**
28	Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. .PWD SR 2018-19 It No.15.17Pg. No.116								
	Basic rate	245.00							
	Area Weightage 6%	14.7							
	Total	**259.70**							
		Sqm							

Sl No	Description					Depth	Qty	Rate	Amount
	Water tank		8	5.00		1.000	40.00		
			8	1.20		1.000	9.60		
							49.60	259.70	12881.12
29	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) (P.No-103,I No-13.85.4) 32mm nominal OD pipes								
	Basic rate	254.00							
	Area Weightage 6%	15.24							
	Total	**269.24**							
		m							
	Water tank		2	25.00			50.00		
							50.00	**269.24**	**13462.00**
30	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with **MS. Hot dip Galvanised grill** work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)								
	Data rate	9144.00							
		Sqm							
	Fence		1	12.00		2.40	28.80		
			1	33.00		2.40	79.20		
							108.00	**9144.00**	**987552.00**
31	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with **MS. Hot dip Galvanised grill** work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work. (Data Rate)								
	Data rate	12475.00							
		Sqm							
	Gate		1	4.00		2.70	10.80		
							10.80	**12475.00**	**134730.00**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
32	Providing and fixing pre cast solid **cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30)								
	Basic rate	408.00							
	Area Weightage 6%	24.48							
	Total	**432.48**							
		Nos							
	Pathway		2	75.00			150.00		
	Surround bench		8	6.40			51.20		
	Platform		1	42.00			42.00		
							243.20		
							540.00	**432.48**	**233539.20**
33	Painting two coats after filling the surface with **synthetic enamel paint** in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	Basic rate	80.00							
	Area Weightage 6%	4.8							
	Total	**84.80**							
		Sqm							
	Pathway		2	75.00	0.30		45.00		
	Surround bench		8	6.40	0.30		15.36		
	Platform		1	42.00	0.30		12.60		
	Water tank		8	5.00		1.000	40.00		
			8	1.20		1.000	9.60		
							122.56	**84.80**	**10393.09**
34	Providing and laying/fixing cement base, precast, pre polished cement concrete, **designer tiles** 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No-112,I No-14.62)								
	Basic rate	1232.00							
	Area Weightage 6%	73.92							
	Total	**1305.92**							
		Sqm							
	For Benches		8	1.80	1.50		21.60		
	Platform		1	15.00	6.00		90.00		
							111.60	**1305.92**	**145740.67**
35	KSRB 14.6 : Providing and laying heavy duty **cobble stones** interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBS (P.No-103,I No-14.6), **60mm thick**								
	Basic rate	1053.00							
	Area Weightage 6%	63.18							
	Total	**1116.18**							
		Sqm							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Qty	Rate	Amount
	Pathway		1	75.00	1.80		135.00		
	Front cobble stone		1	80.00	0.60		48.00		
							183.00	1116.18	204260.94
36	**Executive Bench- Made out of Sadarahalli grey stone** with hand supports with 3 line finishing with arch design with 100mm slabs. Height 90x Length 1500 width 45 cms (Data approved rate)								
	Data rate	18200.00							
		Each							
	Benches		16				16.00		
							16.00	18200.00	291200.00
37	BESCOM Deposite Charges	Nos	2				2.00	13500.00	27000.00
								Total Construction Cost	4458905.73
								Towards GST 12%	496884.69
								PMC Charges	44,000.00
								Sub Total	4999790.42
								Utility Shifting,Miscellaneous and Rounding off	209.58
								GRAND TOTAL	5000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle, PRED, BWSSB, KPWD Electrical SR for year 2018-2019

Assistant Engineer
Ward No-04
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Name of Work: Improvements to Burial ground at Allalasandra and surrounding areas in ward no-04 of Yelahanka New Town Sub Division

Ramanjeevaiah